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DR-960 January 1978



### METEOROLOGICAL DATA REPORT

12828D LANCE MISSILE NO. 3304, ROUND NO. 308 ESL (19 JANUARY 1978)

BY

WSMR METEOROLOGICAL TEAM





ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

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### INTRODUCTION

12828D Lance, Missile Number 3304, Round Number 308 ESL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0832 HRS MST/19 January 1978. The scheduled launch time was 0830 HRS MST.

### DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,987	FEET/MSL
PRESSURE	882.8	MBS
TEMPERATURE	0.9	°c
RELATIVE HUMIDITY	80	*
DEW POINT	-2.1	°C
DENSITY	1,118	GM/M <sup>3</sup>
WIND SPEED	10	МРН
WIND DIRECTION	185	DEGREES
CLOUD COVER	10	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, AT 0832 HRS MST/19 JANUARY 1978.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	. HEIG		SPEED (MPH)
SUR	185	10.0	210	0 137	14.5
100	186	10.0	2200	0 140	13.5
200	187	9.5	2300	0 139	12.0
300	188	9.0	2400	0 139	11.0
400	189	8.5	2500	0 137	9.0
500	189	10.0	2600	0 136	7.0
600	189	12.0	2700	0 137	9.0
700	188	12.0	2800	159	7.5
800	187	11.5	2900	0 171	8.0
900	194	11.5	3000	0 177	8.5
1000	201	12.0	3100	189	8.5
1100	200	12.0	3200	196	9.0
1200	199	12.0	3300	206	8.0
1300	190	11.5	3400	216	9.0
1400	180	11.5	3500	223	7.5
1500	172	12.0	3600	231	6.5
1600	164	13.0	3700	190	3.5
1700	1.60	14.0	3800	126	5.5
1800	155	14.5	3900	206	5.5
1900	145	14.5	4000	183	6.5
2000	135	15.5	4100	179	5.5

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0820 MST/19 JANUARY 1978
12828D LANCE, MISSILE NO. 3304, ROUND NO. 308 ESL

### PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SSE OF LAUNCHER.

THE RESERVE OF THE PARTY OF THE

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	178	5.0
4300	188	5.5
4400	193	5.5
4500	190	5.0
4600	185	4.5

TABLE II. (CONT)

NOTE: WIND DIRECTION ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	185	10.0	2100	134	13.5
100	187	10.0	2200	137	14.5
200	188	10.0	2300	140	12.5
300	188	11.0	2400	144	11.0
400	189	11.5	2500	151	10.5
500	190	12.0	2600	161	9.5
600	191	14.0	2700	159	9.0
700	190	12.0	2800	158	8.5
800	188	11.5	2900	170	10.0
900	189	11.0	3000	179	9.5
1000	190	11.0	3100	184	8.5
1100	187	11.5	3200	196	8.5
1200	185	12.0	3300	198	9.5
1300	179	12.5	3400	200	10.0
1400	174	13.5	3500	193	7.5
1500	169	13.0	3600	179	5.5
1600	163	12.5	3700	166	5.5
1700	.155	12.5	3800	152	6.0
1800	143	12.5	3900	161	7.0
1900	138	12.0	4000	168	8.0
2000	131	13.0	4100	168	6.5

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 0832 MST/19 JANUARY 1978
12828D LANCE, MISSILE NO. 3304, ROUND NO. 308 ESL

### PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SSE OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	168	6.0
4300	170	6.0
4400	172	6.5

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

U19002U049 WHITE SANDS TABLE IV.

# GF ODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

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REL.HUM. PERCENT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ERATURE PEWPOINT CENTIGRADE	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
TEMPE AIR DFGREFS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E GEOMETRIC ALIITUCE S MSL FEE1	3989.0 4244.7 5721.0 6104.4 7241.4 7676.2 8713.0 9390.3 10039.0 11965.2 149210.9 14923.7 15683.7 16885.7 16885.7 16885.2 23986.2 23986.2 2492.3 35396.9 35396.9 43910.5 45282.9
PRESSURE MILLIBARS	8855.8 8875.8 8827.0 775.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715.0 715

STATION ALTITUDE 3949.JU FELT MSL 19 JAN. 78 0820 HRS MST ASCENSION NO.

SIGNIFICANT LEVEL DATA TABLE IV. (CONT) 0193020349

32.40043 LAT DE 106.37033 LON DE GEODETIC COORDINATE

DEGREES CENTIGRADE TEMPERATURE AIR DEWPOINT PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

+.01--67.0 53413.9 60376.6 100.0 70.0

-65.3 -60.4 -59.8 -56.J 81986.0 67022.7 77279.9 50.0 30.0

10.0 100233.6 9.8 100670.4 45557.2 23.8 20.02

6.54-

7.94-

REL.HUM. PERCENT

7

STATION ALTITUDE 3969.00 FEET MSL
19 JAN. 78 0820 HRS MST
ASCENSION NO. 49

UPPER AIR DATA C196020045 WHITE SANDS TABLE V.

6F0DETIC CCORDINATES 32.40043 LAT DEG 106.37033 LON DEG

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INDEX OF REFRACTION	1.000271	N	•	.00026	1.000263	.03326	.00026	1.000260	.00025	2	. n0025	.03025	1.000253	5	. 10025	. 1332	.00024	.000	.00024	,73024	.00024	.00023	.00023	1.030232	.00022	.00022	0000	.03022	.00022	.03121
SPEED KNOTS	1.9	2.0		•		•		<b>7.9</b>	7.2	8.0	8.3	9.6	6.3	8.1	6.0	5.7	4.5	3.4	3.0	3.3	3.0	2.9	3.0	3.2	3.4	3.6		7. 7	5.1	5.7
WIND DA DIFECTION DEGREES(TN)	180.0	19.	•	56.	151.2	47.	##	142.9	41.		39.		138.8		4.3	47.	53.	159.5	. 99	74.	. 4 A	95.	00	.40	07.	.60	212.2	12.	12.	2.
PEED OF SOUND KMOTS	641.6	41.	641.6	041.0	640.4	639.8	639.2	•	37.	•	•	•	638.7	•	638.0	37	37	657.1	38	640.0	640.6	040.0	9.949	9.040	646.7	640.5	640.1	039.0	5	639.0
DENSITY S GM/CURIC METER	1135.7	135.	126.	120.	1113.7	107.	101.	. 460	.380	082.	073.	062.	1052.5	345.	038.	031.	024.	017.	005.		3	5	966.1	9.096	53.	4	2.046		28.	•
REL.HUM. PERCENT	0.69	4.89	50.0	56.8	4.09	64.0	•	70.5	73.4	70.0	<b>&amp;</b>	80.2	81.7	3.	54.5	5.	7	8	. 7	9	5	5.	•	0	'n	-	62.0	4	5	61.2
ERATURE DEWPOINT CENTIGRADE	-7.2	-7.3	1.6-	-10.1	8.6-	-9.6	4.6-	h • 6 -	•		-9.1	-8.0	-7.5	-7.5	-7.5	-7.6	9-1-	1.1-	-6.2	h•h-	-4.5	-5.3	-6.5	-1.1	-9.1	6.6-	8.6-	1.6-		-10.8
TEMPE AIR DEGREES CI	-2.3	-2.3	-2.5	•	-3.3	•	-4.3	6.4-	•	0.9-	0.9-	-5.1	8.4-	-5.1	•	15.0	6.5-	-6.1	-5.5	-3.9	-3.4	-3.3	-3.2	-3.2	-3.1	-3.2	•	-3.9		-4.5
PRESSURE MILLIBARS	084.3	883.9	877.3	9.018	863.9	357.3	1.053	044.1	837.6	331.1	424.7	318.3	812.0	0.500	199.5	193.3	787.2	781.1	175.0	769.1	103.2	157.3	151.5	145.7	140.0	734.3	122.7	723.1	117.5	712.0
GEOMETRIC ALTITUDE MSL FEET	3989.0	4000.0	4200.0	4400.0	3.0094	4800.0	20005	5200.0		5600.0	5800.0	0.0009	0500.0	0.00.0	0.0039	0.800.0	1,000.0	7200.0	0.0041	7600.0	7600.0	0.0000	8200.0	0.00+0	0.0099	0.0055	0.000%	9200.0	0.0046	0.0096

STATION ALTITUDE 3989.00 FEET MSL 17 JAN. 78 U823 HRS MST ASCENSION NO. 49

UPPER AIR DATA C199026049 WHITE SANDS TABLE V. (CONT)

6E0DETIC COORDINATE 32.40043 LAT DE 106.37033 LON DE

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INDEX OF REFPACTION	1.000217	1.000214	1.530212	000	1.000209	1.000207	1.000206	1.000204	•	1,000200	•		1.000195	1.000193	1.101192	1.000190	1.000189	1.000188	1.000186	1.170185	1.000183	1. 100182	.00018	3017	1.000177	, 73017	.00017	3017	1.000173	1.300173
ATA SPEED KNOTS	4.0		7.3	7.6	7.8	8.0	8.3	8.0	8.9	4.6	4.0	10.5	11.0		12.3	12.9	13.6	13.9	13.9	13.9	14.0	14.2	•		15.3	5		•		20.1
WIND DA OTRECTION CEGREES(TN)	211.9	•	212.9	214.1	5.	216.3	1.	223.6	229.4	234.8	439.6		248.2	252.3		5.943	262.1		•	274.0	278.1	262.1	286.3	;	295.1	299.1	2	2		336.1
SOUND KNOTS	0.58.7	638.4	637.9	637.4	636.9	636.4	635.9	635.6	35.	635.3	35.	635.0	034.7	634.4	634.0	633.7	633.4	633.1	032.8	032.4	632.1		631.5	632.0	032.7	633.3	33.		634.2	034.4
DENSITY S GM/CUBIC METER	915.7	6.606	903.8	898.2	892.6	867.1	881.6	675.5	869.1	62.	856.4	850.2	844.3		832.8	•	821.5		•	•	799.3	93.			773.0			751.8	745.5	739.2
REL.HUM. PERCENT	50.5	51.9		. 5	n · 6n	48.8	48.2	40.2	43.5	40.9			35.8	35.6	35.4	35.3	3	4	34.7	34.5	34.4	34.2	34.0		36.9		33.6	•	42.0	7.04
ERATURE DEWPOINT CENTIGRADE	-12.0	-13.3	-14.0	-14.5	-15.0	-15.5	-16.0	-16.7	-17.5	-18.4	-19.3	-20.1	-20.4	-20.7	-21.0	-21.3	-21.0	-21.9	-22.2	-22.5	-22.8	-23.1	-23.4		-22.8	-22.5		-20.3	6	-17.7
TEMPERA AIR DE DEGREES CEN	T.4-	-5.0	-5.3	-5.7	-6.1	9.9-	-7.0	-7.2	-7.3	+·L-	-7.5	-7.0	6.1-	-6.2	-8-4	-8.7	0.6-	-9.2	-9.5	8.6-	-10.1	-10.3	-10.6	-10.1	9.6-	0.6-	-8.6	-8.5	4.8-	-8.5
PPESSURE MILLIBARS	106.5	701.1	695.6	690.2	6.489	9.619	674.3	0.690	663.8	658.6	053.5	4.040	043.3	638.3	033.3	620.3	023.4	616.5	013.6	0.08.8	0.400	599.3	294.6	589.9	585.2	580.6	576.1	571.6	567.1	502.6
GEOMETRIC ALTITUDE MSL FEET	9600.0	10000.0	10200.0	10400.0	10000.0	10600.0	11000.0	11200.0	11400.0	11600.0	11800.0	1,000.0	12200.0	12400.0	12000.0	12800.0	13000.0	15200.0	13400.0	13600.0	15800.0	14000.0	14200.0	14400.0	14600.0	14800.0	15000.0	5200	15400.0	15600.0

# UPFER AIR DATA U199920049 WEITE SANDS TABLE V. (CONT)

STATION ALTITUDE 3949.00 FEET MSL 19 JAN. 76 0820 HRS MST ASCENSION NO. 49

INDEX OF PEFRACTION	1.000172	1,000171	1.000169	1,000168	1.000167	. 00016	1.000165	.00016	1, 110162	00016	1, 100159	•		1.000156	1.730154	1.000153		1.000151	1,000150	1.000149	1.733148		1,000146	1.000145	1,000144	1.000143	. 30014	.00014	301	1.000139
DATA SPEED KNOTS	21.5	22.8	m		3	9	26.7	-				•	25.8	2	25.5	2	25.1	5	5	26.1	•	•	27.3		28.1		29.0	29.1		28.8
WIND DA CIRECTION DEGREES(TN)	306.5	306.8	306.1	204.6	-	01.	300.3		.66	2.863	48.	•	297.8	8	298.7		299.5	98.	7.	596.4	295.2	. 44	292.9	91.	90.	289.3	98.	88	89.	2.89.7
SOUND KNOTS	634.1	633.6	633.1	032.5	•	031.4	630.9	6.053	3	25.	629.2	28.	628.3	27.	627.4	26	626.2	25	3	654.5	623.9	623.3	622.7	622.2	•	621.0	620.4	619.8	•	618.6
DENSITY S FRZCUEIC METER	733.9	729.4	724.9	720.5	716.0	711.6	7.	702.4		693.2	488.7	•	1.679	675.2	670.3		662.4	•	5	0.059	645.9	641.9	637.8	633.8		625.9	2.	618.1	614.3	610.4
REL.HUM. PERCENT	46.2	•	40.9	49.2		•	49.5	40.7	47.9	47.0	46.2	45.4	44.5	43.7	43.0	43.3	43.5	43.7	0.44	7.44	44.5	1.44	6. 44			45.0		46.1	40.4	46.6
MPERATURE DEWPOINT S CENTIGRADE	-17.4	-17.8	-18.1	-18.4	-18.8	-19.1	-19.5	-20.1	-20.6	-41.1	-21.7	-42.2	-22.1	-23.3		-24.2	-24.5	-24.9	S	-25.7	-26.0	-26.4	-26.8	-27.2	-27.0	-27.9	-28.3	-28.7	-29.1	-29.5
TEMF AIR DEGREES	-8.5	-8.9	4.6-	8.6-	-10.3	-10.7	-11.1	-11.5	-11.8	-12.2	-12.5	-12.9	-13.2	-13.6	0.41-	-14.4	-14.9	-15.4	-15.9	-16.3	-16.8	-17.3	-17.8	-18.2	-18.7	-19.2	-19.7	-20.1	-20.6	-21.1
PRESSURE MILLIBARS	556.2	553.8	544.5	545.2	540.9	536.6	532.4	520.1	523.9	519.8	515.6	5111.5	501.5	503.4	4.66+	495.3	491.3	467.3	483.4	417.4	415.5	411.7	467.8	464.0	460.3	456.5	452.8	449.1	445.5	441.9
GEOMETRIC ALTATUDE MSL FEET	15600.0	10000.0	16200.6	10400.0	16600.0	10800.0	17000.0	1/200.0	17403.0	17600.0	17800.0	1000001	10200.0	16400.0	10600.0	16600.0	19300.0	15200.0	19400.0	19600.€	14000.0	200005	20200.0	20400.0	200000	20800.0	21000.0	21200.0		21600.0

TATION ALTIT	STATION ALTITUDE 3989. UN FEET MSL	6190020045
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STATION	ALTITUDE	3989.JU FEET	1SW .
19 JAN. 78	7.8	78 U820 HRS MST	15,

	GEODETIC COORDINATES	32.40043 LAT DEG	106.37033 LON DEG
UPPER AIR DATA	0190020049	WHITE SANDS	TABLE V. (CONT)

GEOMETRIC	PRESSURE	E	PERATURE	KFL.HUM.	ENSITY	SPEED OF	MIND DAT	A	INDEX
ALTITUDE MSL FEET	MILL IBARS	A IR DEGREES	DEW POINT CENTIGRADE	PERCENT	METER	KNOTS	DESREE SCIN)	SPEFF	OF REFRACTION
27800.0	339.2	-37.1	-45.6	55.7	500.4	5.88.6	282.8	45.9	1.000112
200000		-37.0	-43.3	55.1	2.194	597.9	62.	47.4	. 93011
202005	333.3	-38.1	-43.7	54.8	443.8	597.3	:82.3	48.9	1.000111
28400.0		-38.5	-44.2	54.6	490.4	9.966	241,8	50.0	1, 000110
20000C		-39.0	T. 44-	54.3	466.9	2.965	281.4	52.4	1.000109
28800.0	324.4	-39.4	-45.1	54.1	483.5	595.6	281.0	54.5	1.139138
29000.0	321.5	-39.9	-45.6	53.8	466.1	595.0	280.6	50.0	1.000106
0.00242 12		4.04-	-46.1	53.6	476.8	294.4	200.2		1.000107
	315.8	-40.8	-46.5	53.4	473.4	513.9	279.5	29.7	1.019106
29600.0		-41.3	0.74-	53.1	470-1	593.3	278.6	61.7	1,000105
29800.0		-41.7	-47.5	52.9	466.R	592.1	277.9	63.7	1.700105
300000		-42.2	6.14-	54.0	463.6	592.1	277.1	1.50	1.000104
33200.0	304.7	-42.6	1.81-	52.4	460.4	591.5	276.4	67.8	1,130103
30400.0		-43.1	6.84-	52.2	457.1	291.0	275.7	70.2	1.000102
30600.0		-43.5	4.64-	51.3**	453.9	590.4	6.472	13.3	
30860.0		-43.8	-50.1	49.94	450.3	v	0.413	76.3	1.000101
31000.0		T . + + -	-50.9	440.94	446.7	'n	273.3	19.4	
31200.0		h • h h -	-51.7	****	443.2	588.	212.7	82.4	
31400.0		L. 44-	-52.5	•	4.59.7	S	272.1	85.1	1.00008
31000.0	285.8	-45.0	-53.3	36.2**	436.3	588	211.7	86.4	5000u*
31805.0		-45.3	-54.5	35.5**	432.9	588.1	271.3	87.6	1.000001
3,000.0		-45.6	-55.0	32.9**	424.5	1.87.7	2.013	2.88	1.000056
32200.0	278.0	-45.9	-56.0	30.3**	426.1	587.5	270.5	1.00	1.330095
		7.94-	-57.u	27.7**	•	587.0	2.013	91.4	1,000094
32600.0	V	-46.5	-58.0	25.0**		586.6		95.0	•
3.500.0	270.4	-46.8	-59.1	4	416.1	5.000	•	94.6	60000.
33000.0	208.	-47.1	-60.4			585.8		86.2	1.110092
33200.0	265.	4-14-	-61.7	17.2**	9.504	585.4	70.	7.76	\$000u*
•	203.1	1-47.7	-63.2	14.5**	4.96.4	85		66.3	1.00001
33600.0	260.	6-14-	6.49-	11.9**	403.2	584.0	3.073	101.5	6000U.

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	UPPER AIR DATA
E 3989.00 FEET MSL	L190020645
UB23 HRS MST	JHITE SANDS
5.7	TABLE V. (CONT)

STATION ALTITUDE 19 JAN. 78 ASCENSION NO.

INLTES	AT DEG	LON DEG
	32.40043 LAT DEG	
GEONETIC		10

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AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA

U19302U349 WFITE SANDS TABLE V. (CONT)

STATION ALTITUDE 3949, UN FEET MSL 19 JAN. 78 0820 HRS MST ASCENSION NO. 49

6E00ETIC C00RDINATES 32.40043 LAT DEG 106.37033 LON DFG

CHARLES THE CHARLES WERE WAS CONTINUED TO SELECT TO SELECT THE SEL

GEOMETRIC	RIC PRESSURE	SURE	TEMPE	RATURE	REL.HUM.	GM/CHPIC	SPEFU OF	LIKECTION	SPEFF	INDEX
MSL FEET	EI MILLIBARS		ES (	CENTIGRADE		METER	KNOTS	DEGREES(TN)	KNOTS	PEFRACTION
34800.0	3.0 195	5.1	-52.0			307.3	575.3	4. 47.5	96.3	1.000068
40000	1	3.2	-52.4			304.9	578.8	274.3	1.56	1.739968
40200.0	1	91.4	-52.8			302.5	578.5	4	95.1	1.000067
40400	1	9.6	-53.1			390.5	517.9	473.9	64.5	1,000067
400000	1	3.1	-53.5			297.8		273.7		1.000066
40800.0	-	86.0	-53.8			295.5		273.5	93.2	1,033366
	1	1.3	-54.2			293.2	576.5	273.3	92.5	1.000065
0.0021# 4	7	5.5	-54.4			290.7		273.1	•	1.000065
41400.0	7	8.0	-54.5			268.1	576.0	473.0	90.06	1.000064
41000.0		9.1	-54.6			265.5	575	272.8	89.7	1.000064
41803-0		177.4	-54 · B			282.9		272.7	88.8	
4.0000.0		2.1	6.45-			250.4	575	272.6	68.1	1.000062
42200.0		174.0	-55.0			277.9		272.8	88.1	
42400.0		172.3	-55.1			275.4	575.4	273.1	88.0	1,00001
4560		1.0	-55.3			272.9	575	273.3	88.3	•
42000.0		69.1	-55.4			270.5	n.	273.5	87.9	1.000060
4300		107.4	-55.5			268.0		273.7	87.9	
43201		5.9	-55.7			265.6	'n	273.9	87.8	1.000059
4 540	1	64.3	-55.8			263.3	ıv	274.2	87.8	•
43600.0	-	2.7	-55.9			260.9	574.	274.4	~	1.000058
4380		01.2	-56.0			258.6		274.6	87.7	1.000058
44000		158.6	-5003			256.4	273.	8.413	87.6	1,000057
		8.1	-56.6			254.3	513	274.9	87.1	1.000057
3.00444	15	6.5	-57.0			252.3	572.8	6.473	85.4	1,000056
0.009+4	15	0.5	-57.3			250.2	57		43.7	1.000056
44000.0	15	3.5	-57.7			248.2	571.9	6.473	82.0	1,000055
45000.0	15	2.1	-58.0			246.2	5		4.00	.0000
42500	15	9.0	-58.4			244.3	571.	8.473	78.7	.00005
54	14	9.1	-58.6			242.1	570.		16.4	10
45000	• 6 14	1.1	-58.7			240.0	5.015	574.7	74.0	1,000053

3989.00	STATION ALTITUDE 3989.00 FEET MSL
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	ALTITUDE 78

	GEODETIC COORDINATES	32.40043 LAT DEG	106.37033 LON DEG
UPPER AIR DATA	0196020049	WHITE SANDS	TABLE V. (CONT)

The state of the s

45803.0 10 46000.0 10 46500.0 10 46400.0 10		DEGREEC	OF NITERADE	NE LEK	KANTOTA	OF CREES (TN)	/ CZ	REFRACTION
	144 3	-58 o	TOWNER TOWNER	237	570.3	774.7	71.5	1,000051
	144.8	-59.0		35.		274.6	0.69	1,000052
	143.4	-59.2		~		214.6	9.99	1.030052
	145.0	-59.3		231.4	1.593	5.44.5	64.2	1,000052
	140.6	-59.5		229.3	569.5	274.5	62.2	1,00051
46800.0	139.3	-59.6		227.2	568.3	5.475	60.3	1,000051
	137.9	1-59.7		225.1	569.1	4.462	58.3	1,000050
47200.0 1.	130.0	6.65-		223.1	568.9	4.473	50.4	1,000050
47400-0	135.2	0.09-		221.1		274.3	54.4	1. 133049
	133.9	-60.2		219.1	568.5	273.8	53.6	1.000049
	132.6	-60.3		217.1		273.2	53.0	1, 200048
4000000	131.3	-60.5		215.1		272.6	52.4	1.000048
	130.1	9.09-		213.2		272.0	51.3	1.000047
	126.8	6.09-		211.3		271.4	51.2	1.000047
	127.5	-61.5		209.7		270.7	_	1,000047
	126.2	-61.7		206.6		0.075	51.4	1.000046
	125.0	-62.2		206.4		269.4	51.7	1,00000
49200.6 13	123.7	-62.6		204.7		208.7	52.1	1.000046
	25.5	-63.0		203.1		208.0	52.4	1,00000
49600.0	121.3	-63.5		201.5	564.1	4.703	52.8	1.000645
49800.0 13	120.1	-63.9		199.9	553.0	267.5	52.9	1,000045
5000000	110.9	-64.3		198.5	505.0	1.763	52.4	1.000044
5J200.0 1	117.7	1.49-		190.8	562.4	267.9	53.0	1.900044
50400.0 11	116.6	-050-		195.2	561.8	208.1	53.0	1,000043
5000000	115.4	-65.6		193.7	561.3	468.3	53.0	1.000043
	114.3	-65.0		142.2	560.7	268.7	53.1	1.333043
51000.0 1	113.1	-66.4		190.6	560.2	4.607	53.0	1,000042
	112.0	7.99-		188.9	554.7	270.2	53.0	1.339042
51400.0 11	110.8	-67.1		167.3	558.3	271.0	52.9	1,000042
51600.0 10	1.60	-67.4		185.7	558.8	271.8	52.9	1.000041

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0190020049 WHITE SANDS TABLE V. (CONT)

STATION ALTITUDE 3989.JU FEET MSL 19 JAN. 76 0820 HRS MST ASCENSION NO. 49

GF0DETIC C00R91NATES 32.40043 LAT DEG 106.37033 LON DEG

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2	4.1	41	0 1	0 0	0 10	39	36	39	38	136	3.7	3.	37	36	30	36	35	35	34	34	34	2.2	33	33	32	32	32	31	31	31
INDEX OF REFRACTION	1.00004	1,000041	1.000040	1,000040		1.000039	1.000035	1,000039	1.000038	1.000036	1.00037	1,00063	1.000037	1,000036	1.000030	1,00003	1.000035	1,000035	1.000034	1,000034	1.000034	1,000073	1.00003	1,00003	1,000032	1,00003	1.00003	1,00003	1.00003	1,00003
DATA SPEED KNOTS	52.9	52.9	53.0	53.0	53.0	53.1	53.2	52.4	51.4	50.5	49.0	48.7	47.6	45.8	0.44	42.1	40.3	36.4	36.4	34.1	31.6	29.6	27.3	25.1	22.0	20.1	17.6	15.2	12.7	10.7
WIND DA CIRECTION DEGREES(IN)	272.5	273.2	613.9	274.5	275.2	275.8	4.973	6.917	277.3	1.775	278.1	4.18.6	479.0	279.1	£19.3	219.5	279.7	6.667	219.9	4.19.6	219.2	3.813	718.4	277.8	277.2	276.3	275.3	273.9	271.9	0.012
SPEED OF SOUND KNOTS	558.4	551.4	557.5	557.0	556.6	556.1	555.7	555.2	554.6	554.8	554.9	555.0	535.4	555.3	555.4	55555	535.6	555.7	555.0	555.9	556.0	156.1	556.3	556.4	556.5	556.6	556.7	556.8	556.9	557.0
DENSITY GRZCUPIC METER	164.1	182.6	161.0	179.5	177.9	170.4	174.9	173.4	171.9	170.1	168.3	166.5	164.8	163.6	101.3	159.6	157.9	156.2	154.6	153.0	151.3	149.7	148.1	146.6	145.0	143.5	142.0	140.5	139.0	137.5
RFL.HUM. PERCENI																														
TEMPERATURE R DEWPOINT EES CENTIGRADE																														
TEM9 AIR DEGREES	1-67.7	-68.1	-68.4	-68.7	-69.1	+.69-	1-69-	-73.0	4.01-	-70.3	-70.2	-10.2	-70.1	0.01-	6.69-	9-69-	9.69-	1-69-	9.69-	-69.5	+.69-	4.69-	-69.3	-69.2	-69.1	0.59-	6.69-	-689-	•	-68.7
PRESSURE MILL IBARS	106.0	107.5	106.4	105.3	104.2	103.2	102.1	101.1	100.1	95.1	98.0	0.16	96.1	95.1	74.1	93.1	92.2	91.3	90.3	89.4	88.5	87.6	86.7	85.8	84.9	84.1	83.2	82.4	81.5	80.7
GEOMETRIC ALTITUDE MSL FEET	51600.0	52000.0	52200.0	52400.0	52600.0	52800.0		53200.0	53460.0	53660.0	53800.0	24000.0	54200·0	54400.0	24600.0	54600.0	5>0000-3	55200.0	55400.0	55000.0	55800.0	5000000	50200.0	56400.0	56600.0	56660.0	57000.0	57200.0	57400.0	0.00915

ITCUE	STATION ALTITUDE 3989.00 FEET MSL
	UB20 HRS MST

GFORETIC COORDINATES 32-44043 LAT DEG 106-37053 LON DEG	INDEX D OF S PEFRACTION	0 1 7 7 7		14.8 1.000026 16.5 1.000027 17.7 1.000027 18.8 1.000027		v-woow-10-
GFOR	DATA SPEED	010000000000000000000000000000000000000	8.1 9.7 11.4	16	21.0 22.2 23.0 23.0 22.3 20.9	101 13 14 18 19 19 19 19 19 19 19 19 19 19 19 19 19
	WIND D DIRECTION DEGREES(IN)	271.1	2 8 6 0 1 2 8 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 4 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0 1 1 6 9 6 0	289.5 290.5 290.6 291.0	291.4 291.6 291.8 292.9 294.9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
DATA	SOUND KNOTS	557.1 557.2 557.4 557.5	557.0 5.753 5.753	558.1 558.2 558.3 558.4	55555555555555555555555555555555555555	1 4 4 6 7 2 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UPPER AIR DA C190U2U049 WHITE SANDS TABLE V. (CONT)	DENSITY S GM/CUBIC PETER	136.1 134.6 133.2 131.8	125.0 127.6 126.3 126.3	123.6 122.3 121.0 119.4	117.3 1116.0 1113.6 1112.5 1111.3	100 100 100 100 100 100 100 100 100 100
7 71	REL.HUM. PERCENT					
3989.00 FEET MSL 082J HRS MST	TEMPEKATURE AIR DEWPOINT DEGREES CENTIGRADE	<b>ထ ၁ ၁ ၁</b>	6666 6686 6881 6881	-67.9 -67.8 -67.8 -67.7	-67.5 -67.4 -67.3 -67.3	
ALTITULE 398' 78 0.	PRESSURE	79.9 79.1 78.3 77.5	75.1 75.1 74.3	72.6 72.1 71.4 70.6 69.9	6 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STATION AL 19 JAN. 78 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	57803.0 58000.0 58200.0 58400.0	5000.0 5000.0 59200.0 59400.0	59600.0 59803.0 60000.0 60200.0	606000 6020000 6130000 612000 6140000 616000	620666 624000 624000 628000 638000 638000 638000 638000 638000

		UPPER AIR DATA
TATION ALTITUDE	STATION ALTITUDE 3989.33 FEET MSL	0190020049
19 JAN. 76	U820 HRS MST	WHITE SANDS
SCENSION NO.	7.7	TABLE V. (CONT)

GEODETIC COORDINATES 32.40043 LAT NEG 106.37033 LON DEG

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INDEX OF REFRACTION	1.00002	1,939922	1.000022	1,000021	1.000021	1,000,121	1.000021	1,000021	1.000026	1,000020	1,300020	1,000020	1,000019	1	1	1.000019	1.030319	1	1	1	1.000018	1,000,1	1.000018	1,000017	1.000017	1.000017	1,333917	1,000017	1.000016	1.000016
DATA SPEED SPEED MOTS	10.4	10.2	10.0	8.6	9.6	1.6	6.6	10.1	10.3	10.5	10.0	10.8	10.9	10.9	10.9	10.9	10.9	11.0	11.0	11.0	10.9	10.9	10.8	10.8	10.8	10.8	10.9	10.9	10.9	10.9
WIND DA CIRECTION DESREES(TW)	2	23.	225.3	327.7	330.2	329.1	327.8	366.5	325.3	324.1	322.9	321.9	322.3	323.1	323.9	324.7	3.5.5	326.3	327.1	328.4	330.6	252.7	534.9	137.1	339.3	341.5	543.7	345.1	346.5	347.9
SOUND KNOTS	560.1	500.5	560.3	560.4	50006	9.096	200.7	560.8	560.9	561.0	561.1	20105	561.3	561.4	561.5	561.6	561.0	561.8	561.9	262.0	562.2	50503	562.4	562.5	562.7	562.8	562.9	563.1	563.2	563.3
DENSITY S GM/CUPIC METER	49.2	98.2	97.1	96.1	95.1	94.1	43.2	92.2	91.2	93.3	89.3	4.80	87.5	86.6	85.7	8.43	83.9		82.2	61.3	80.5	75.6		76.0	11.2	76.4	75.6	74.8	74.0	73.3
RFL.HUM. PERCENT																														
PERATURE DEWPOINT CENTIGRADE																														
TEMF AIR DEGREES	4.09-	-66.3	-66.3	-66.2	-66.1	-66.1	-66.0	6.50-	6-69-	-65.8	1-69-	1-69-	-65.6	-65.5	4.59-	-65.4	-65.3	-65.2	-05.1	-65.0	6.40-	3.49-	1.49-	9.49-	-64.5	-64.5	+ + + 9 -	-64.3	7.49-	-64.1
PRESSURE MILLIBARS	58.9	58.3	57.7	57.1	50.5	56.0	55.4	54.6	54.3	53.7	53.2	1.55	52.1	51.6	51.1	20.0	50.1	49.0	49.1	48.6	48.1	41.6	47.2	46.7	46.2	45.0	45.3	6-44	<b>5.</b> 55	0.44
GEOMETRIC ALTITUDE MSL FEET	63800.0	0.000+9	64200.0	0.00449	0.00949	64800.0	٥	65200.0	0.00450	0.009c9	62803.0	0.00000	66200.0	0.00400	6000000	0.00039	9.00019	67200.0	0.00429	0.00919	67833.0	0.00000	6.200.0	0.00409	68030.0	0.00329	0.60069	0.00249	0.00+49	0.00949

STATION ALTIT 19 JAN. 78 ASCENSION NO.	LDE.	3989.UU FEET MSL J820 HRS MST		UPPER AIR DAIA C1900250049 UHITE SANUS TABLE V. (CONT)	2 DATA 2049 ANUS (CONT)		GFODETIC 32.4 106.5	DFTIC CONRINATES 32.40043 LAT DEG 106.57033 LON DEG
GEONETRIC ALTITUDE MSL FEET	PRESSURE MILLIEARS	TEWPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	BENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	UIND DIRECTIO' CEGREES(IN	DATA SPEED	INDEX OF RFFRACTION
0.00000	43.5	164.0		72.5	563.4	349.2	10.9	1.030016
70200.0	42.7	-63.8		71.0	77 14	351.9	11.0	1.000016
700000	41.8	-63.6		9.59	564.0	203.1	11.2	1.000015
71600.0	41.0	-63.5		68.8	504.1	347.7	11.0	1.000015
71200-0	40.6	-03.3		4.70		345.2	12.4	1.000115
71600-0	39.8	-63.1		66.0	504.0	340.8	13.3	1.000015
71600.0	39.4	-63.0		65.3	504.7	338.8	13.8	1.000015
72260.0	36.6	-62.8		04.0		334.4	15.2	1.900014
72660.0	37.9	-62.6		62.7		329.8	17.2	1,000014
72833.0	37.5	-62.4		62.0	505.4	347.9	18.3	1.000014
73200-0	36.8	-62.3		60.7	565.6	324.7	20.5	1.933414
75600-0		7.79-		59.5	565.9	322.9	22.4	.00000
73600.0	35.7	-62.1		58.9	200.0	325.5	21.8	1.000013
74200-0	35.0	6.19-		5.7.7	566.3	331.0	20.8	1.000013
	4	-61.8		57.1		334.0	20.4	.00001
74600.0	34.3	-61.7		5.95	n	•	20.0	1,000013
14000.0	33.9	-61.6		2.00	٠,	340.3	19.7	.00001
75000-0	33.6	101.5		55.3	566.8	343.6	7.0	1.000012
75403-9	32			54.2	567.0	350.8	18.6	1.000012
75000.0	32	-61.2		53.6	567.6	354.6	18.3	1,000012

MIND VATA INDEX IRECTION SPEED OF GREES(IN) KNOTS FFFRACTION
,
UEGNEES
SOUND
UENSITY S SM/CUBIC METER
PERCENT
DEWPOINT S CENTIGRADE
AIR DEGREES CE
MILLIBARS

STATION ALTITUDE 3989.JJ FEET MSL 19 JAN. 78 U820 HRS MST ASCENSION NO. 49	MSL	ST	
ALTITUDE 76 N NO. 4	3989.JJ FEET	U820 HRS .	•
	AL TITUUE	7.6	N NO.

	UPFER AIR DATA	
FEET MSL	0193323349	GFODETIC COORNINATES
RS *ST	WHITE SANDS	32.40043 LAT DEG
	TABLE V. (CONT)	106.37733 LON DEG

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GEOMETRIC	PPESSURE	N.	PERATURE			SPEED OF	TAC ONIM	TA	INDEX
ALTITUDE MSL FEET	WILLIBARS	AIR	CENTIGRADE	PERCENT	METER	SCUND	CIRECTION DEGREES(TN)	KMOTS	OF REFRACTION
0.00010	24.0	-59.8			35.5	565.0	344.2	21.6	1.000009
82000.0	23.8	-54.8			38.8	569.1	345.3	22.5	
82200.0	23.6	-58.6			38.4	569.3	346.4	23.6	1.000009
82400.0	23.3	-59.4			38.0	569.6	347.3	24.5	1.100006
84660.0	23.1	-59.1				6.595	348.2	25.0	1.000006
82800.0	22.9	-58.9			57.2	570.2	0.440	26.6	
83000.0	22.7	-58.7			36.8	5.076	349.8	27.6	1.000006
83200.0	22.4	-58.5			36.4	573.8	350.1	28.4	
83400.0	22.2	-58.3			36.0	571.0	349.5	28.5	1.00000
83600.0		-58.1			35.6	571.3	349.0	28.6	•
83500.0		4.16-			35.3	571.6	3.48.5	28.8	1.00000
0.00048		1-57.7			34.9	571.9	348.0	28.9	
84200.0	21.4	-57.4			34.5	572.2	747.4	79.0	1,000008
84400-0	21.2	-57.2			54.1	572.5	246.9	29.5	1
94600.0	21.0	-57.0			33.6	572.7	1.945	29.3	-
34800.0		-56.8			33.4	573.3	345.9	24.5	1
85000.0		-56.6			33.1	573.3	345.5	29.3	1
85200.0	20.4	-56.4			32.7	573.6	345.1	29.2	1.000007
35400.0		-56.4			32.4	575.9	344.6	29.0	1.000007
35606.0		-56.0			32.0	574.1	344.2	26.9	1.000007
85803.0	19.8	-55.3			31.7	574.3	343.8	28.7	1.000001
86000.0		-55.7			31.4	5.476	343.3	26.0	1.000007
86200.0		-55.6			31.1	274.7	342.9	28.5	1,000007
86400.0	19.2	-55.4			30.6	6.463	342.4	26.3	1.000007
86600.0	19.0	-55.3			30.4	575.0	342.3	28.2	1, 13,0007
3.00398	10.7	-55.1			30.1	575.4	242.8	28.0	1.000007
87000.0		-55.U			6	575.4	343.4	7	1,000007
87260.0	16.5	6. 45-			5	575.6	0.44.	27.8	1.000007
9/400.0	18.3				29.2	575.8	7 7	27.7	1,000007
87600.C	10.2	-54.6			ů	9.514	345.2	27.6	1.000006

UPPER AIR DATA

.40043 LAT 9FG

中心 日本編を入いることにいっていることが、

STATION ALTITUDE 3989.00 FEET MSL	0140020048	GEODETIC
	WHITE SANDS	32.4
ASCENSION NO. 44	TABLE V. (CONT)	100.0

INDEX OF REFRACTION	1.339396	1.000006	1.00000		1, 130,136	1.000006	1.000006	1.039336	1,000006	1.1000006	1.000006	1.10000	1,000006	1.333336	1.00000	1, 133,335	1,000005	1.000015	1,0000005	1.000001	1,000005	1.000005	1,000005	1.000005	1,000005	1.000005	1,000005	1.000005	1,000005	1.000005
PEED	27.5	27.4	27.3	27.0	26.7	26.4	26.1	25.8	25.5	25.2	24.9	24.6	24.9	25.2	25.5	25.8	26.2	26.5	26.8	27.2	27.5	27.8	27.3	26.9	26.4	26.0	2	25.1	24.7	24.3
MIND DATA DIRECTION S REGREES(IN) K	845.8	1.00.	347.0	347.3	347.6	347.8	348.0	348.2	348.5	348.7	349.0	2.640	349.0	548.7	348.5	348.2	347.9	547.7	247.4	347.2	346.9	346.7	347.7	3+8.8	6.645	-	352.2	353.4	354.6	555.9
SPEED OF SOUND KNOTS	1,16.1	76	576.5	570.7	576.6	0.776	517.2	4.776	277.6	1.17.7	577.9	578.1	578.3	578.5	278.7	578.8	579.0	579.2	579.4	579.0	1.275	519.9	580.1	580.3	580.5	540.6	580.8	581.0	581.2	581.4
DENSITY S GM/CUBIC METER	28.7		28.1	27.6	27.5	27.2	27.6	26.7	26.4	26.2	25.9	25.7	50.4	25.1	24.9	24.6	24.4	24.1	23.9	23.7	23.4	23.2	23.0	22.7	22.5	22.3	22.1	21.8	21.6	21.4
REL.HUM. PERCENT																														
PERATURE DEMPOINT CENTIGRADE																														
TEMP AIR DEGREES	F. 45.1	54	3	-54.0	-53.9	-53.8	-53.6	-53.5	-53.4	-53.2	-53.1	-54.9	-52.8	1.75-	-52.5	-54.4	-54.03	-52.1	-52.0	-51.8	-51.7	9.15-	-51.4	-51.5	-51.2	-51.0	6.05-	-50.7	-50.6	-50.5
PPESSURE		1 : 0 2	17.7	17.5	17.3	11.2	11.0	16.8	10.7	16.5	10.4	16.2	16.1	15.9	15.0	15.6	15.5	15.3	15.2	15.0	14.7	14.8	14.6	14.5	14.3	14.2	14.1	13.9	13.8	13.7
GEONETRIC ALTITUDE MSL FEET	87800.0	8 × 0000 × 6	84200°C	86400.0	84000.0	DE800.C	87000.0	89203.0	0.00468	89603.0	87800.0	0.00006	0.00208	90400·0	900000	9080000	9,00016	91230.0	91400.0	91600.0	91600.0	92000.0	9.200.0	92400.0	0.00026	92800.0	9,0000.0	93200.0	0.00#46	9300000

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	GFODETIC COORDINATES	32,40043 LAT REG 106,37933 LON DEG	
UPPER AIR CATA	0193020349	TABLE V. (CONT)	

• DENSITY FRICUEIC METER 21•	PERATURE RFL.HUM. DEWPOINT PERCENT CENTIGRADE	ERATURE RFL.HUM. DEWPOINT PERCENT CENTIGRADE
		-50.5 -50.<
		-50.1
		A.V.
		9.64-
		-49.5
		<b>***</b>
		7.67
		7.64-
		-48.8
		-48.7
		-48.5
		1+8++
		-48.5
		-48.1
		-48°C
		-47.9
		-47.1
		-47.0
		4.7.4
		-47.5
		-47.5
		0.74-
		5.04-
		-46.7
		-40.6
		-46.0
		-46.3

## 17 CONT   ALTITUDE 3989.00 FEET MSL		GEODETIC COORDINATES	32.43043 LAT DEG	106.37033 LON DEG	INDEX	96	REFRACTION	1.330093	1.000003	1.133313	1.000003	1.130303	
CIPCER AIR DAIR CONDUCTORS WHITE SANDS TABLE V. (CONT) SRADE METER KNOTS TSAND TABLE V. (CONT)  15.7 586.9 15.5 587.1 15.2 587.1 15.1 587.0		GFODET	32.	100	TA	SPEED	K N: 0 TS						
RE OI NI SRADE					MIND DA	DIMECTION	DEGREES(TN)						
RE OI NI SRADE	CALA	51	56	ONT)	SPEFD OF	Sound	KNOTS	586.9	587.1	587.3	587.1	587.0	
RE OI NI SRADE	FFER AIN	01990200	WHITE SAM	ABLE V. (C	DENSITY	GM/CUBIC		15.7	15.5	15.4	15.2	15.1	
RE OINT SRADE	_			1	KEL.HUM.	PERCENT							
### STATION ALTITUDE 3989.00 FEE  19 JAN. 78		T MSL	#ST		ERATURE	DEWPOINT	CENT IGRADE						
STATION ALTITUDE 398 19 JAN- 78 ASCENSION NO. 49 GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIEARS 99800.0 10.2 100000.0 10.1 130230.0 10.0 100400.0 9.9		9.00 FEE	182J HRS		TEMP	AIR	DE GREES	-46.2	-46.1	6.64-	0.94-	7.01-	
51AT10N AL 19 JAN 78 ASCENSION 6EOMETRIC ALTITUDE MSL FEET 99800.0 100000.0 100400.0 100400.0		TITUUE 398	,	NO. 45	PPESSURE		MILLIBARS	10.2	10.1	10.0	6.5	8.6	
		STATION AL	19 JAN - 78	ASCENSION	CEOMETRIC	ALTITUDE	MSL FEET	99400.0	1000001	130200.0	1004001	10000000	

v. 99

6F00ETIC COORDINATES 32.40043 LAT 9EG 100.37033 LON DEG

	מוספת מבפו פוביו זעב	•	1 1 1 1 1 1 1 1 1			21.10
FILLIBARS	FEET	AIR	CENTIGRADE	PE RCENT	DIMECTION DEGREES(TW)	SPEEU KNOTS
850.0	5020.	7.71	4.6-	.80	144.7	5.7
830.0	6583.	-5.3	-7.5	34.	143.3	6.9
750.0	8251.	-3.5	7.9-	70.	201.5	3.1
733.0	1 30 39.	-5.U	-13.5	51.	211.9	7.2
0.059	11939.	-7.0	-19.9	30.	242.7	10.3
0.009	13972.	-10.3	-43.0	34.	281.7	14.2
550.0	16182.	-9-3	-16.1	* 5 %	306.2	23.8
500.0	18578.	-13.9	-23.7	43.	798.6	25.5
450.0	21174.	-20°C	-26.6	46.	288.3	29.1
430.0	24002.	-26.7	-30.8	.80	500.9	0.62
350.0	27112.	-35.1	4.04-	- 8 c	283.8	41.3
399.0	30574.	-43.4	-49.2	52.	274.7	73.6
250.0	34548.	C*64-			271.6	111.8
230.0	39327.	-51.1			214.3	9.1.6
175.0	42147.	6.46-			212.9	R8.1
150.0	45359.	-58.5			274.8	75.7
125.0	49095.	-62.2			200.7	52.1
103.0	53525.	-10.4			277.8	5.00
0.00	57891.	-68.6			1.215	9.2
10.01	60522.	-67.0			241.5	21.0
0.00	63575.	-66.5			326.5	10.5
50.0	67206.	-65.3			327.2	11.0
0.04	71686.	-63.2			337.5	14.1
30.0	71529.	1000-			10.5	17.7
25.0	81261.	5.65-			342.0	50.05
20.0	85868	-56.u			342.8	4.02
15.0	91929.	-51.6			340.4	27.0
1.3 0	130440	0 9 17				

AT LEAST ONE ASSUMED RELATIVE HUMINITY VALUE NAS USER IN THE INTERPOLATION.

TITL MOTING	STATION ALTITUDE 3997.30 FEET MSL
17 JAN. 78	USZU HRS MST

DAIA			
LIVEL	0 60004		11.
A	3	~	2
SIGNIFIC	0190060004	v	TARL

6FPDETIC COMPOINATES 32.48034 LAT DEG 100.42307 LON DEG

PRESSURE	GEOMETR	± ±	ATLR	نـ
		AIR		PERCENT
MILLIDARS	MSL FEE	œ	FNIICK	
00	~		-7.5	•
873.5	4346.2	-2.5	-10.5	54.0
650.0	5048.5	14.0	す・ケー	6000
	N	4.9-	7.5-	62.0
	-		.8.	86.0
	+	1.6-	1.1-	o • • • • • • • • • • • • • • • • • • •
		-6.5	1.8-	88.0
	7	-4.3	1.4-	97.0
	~	-3.1	9.4-	34.0
755.8	8079.4	-2.9	7.4-	91.0
	8443.1	6-2-	-10.4	56.0
	8629.7	-2.4	-11.1	53.0
	:	0.4-	-10.0	63.3
763.3	0.9466	-5.1	-13.5	50.00
733.0	0067.	1.6-	-14.4	0.64
613.3	1064.	+·L-	-16.7	47.0
651.3	1912.	-7.0	-20.1	21.0
	4279.	•	-31.3	10.0
574.3	5104.	-8.2	-22.0	30.0
	5868.	•	-18.8	43.6
531.3	707	-11.4	-20.4	47.0
	-0651	-12.4	4.33-	41.0
	8 597.	-13.4	4.62-	57.0
	0530.	-18.7	-46.6	41.0
	1386.	-20.5	-23.8	47.0
416.3	3001.	-24.8	N	7.00
.00	4 00		-31.0	90.09
5	5.06692	-35.0	-35.6	01.0
0	106		40.	51.0
300.0	30560.3	-43.7	8.54-	50.0

DATA			<u>1</u>
LEVEL	0150060004		· (CONT)
1	20	a	VII
SIGNIFICANT LEVEL	015	8 8	TABLE VII.

GEOPETIC CCCRPINATES 32.48034 LAT DEG 106.42307 LON DEG

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PRESSUR	PRESSURE GECMETRIC	TEMFERATIRE	REL.HU
	ALTITUDE	AIR DEWPOI'T	PERCENI
WILLIDARS	S MSL FEET	DEGREFS CENTICRALE	
290.3	31280.6	-45.4	
267.3	33078.9	-46.3	
250.0	34523.9	-49.5	
241.3	35280.3	-51.3	
231.3	36179.8	-51.4	
221.8	37073.6	0.06-	
200.0	39282.2	-50.0	
104.3	41010.3	-54.3	
172.3	42421.3	-54.5	
150.0	45301.5	-57.5	
127.3	48653.0	-01.0	
100.0	53438.1	-70.3	
10.0	00421.2	-66.3	
56.6	67075.2	65.9	
44.5	59386.0	-65.4	

STATION ALTI 19 JAN. 78 ASCENSION NO	TUDE	3957.30 FEE 0820 HRS	ET MSL MST		UPFER AIR UI1900 eCOC S M R TABLE VIII.	04 04		6F00ETIC 32.4 100.4	DETIC COORDINATES 32.45.354 LAT NEG 100.42307 LON DEG
GEONETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEME AIR DEGREES	PERATURE DEMPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY SM/CUBIC METER	SPEFF OF SOUND KROTS	WIND DA DIRECTION CEGREES(ID)	SPEED KNOTS	INUEX OF PFFRACTION
3997.3	9.488	. i	-7.5	59.0	1129.0	645.7	1 40.0	3.0	1.110269
4500.0			-10.2	56.6	1117.4	6.049	176.5	10.5	45700.
5500.0	435.2	-5.5	6.61	73.2	1384.8	638.0		11.0	.03025
0.0000	619.2	1-6-7	4.6-	81.2	1005.7	636.3	108.7	41.1	1.000254
1000.0	767.9	5	-7.6	90.5	1025.3	6.37.4		0.7	.00024
7503.0	172.8	m	F-#-	91.6	396.3	4.040	179.4	# · · · · · · · · · · · · · · · · · · ·	•
0.0050	743.7	6.7-	-10.5	55.6	957.3	2.0.2	160.9	4 P	1.000277
		-3.3	-10.1	56.6	4.046	4.0.40	98.	4.0	1,000224
9500-0	701.8	-4.3	-11.1	55.0	926.0	2.55.3	610.4 215.4	5.c	1.000220
10500.0		-6.3	-15.4	48.1	8.748	130.0	219.1	2	1.000210
11000.0	0.370	-1.3	-10.0	47.1	883.6	035.5	CA	6.6	1.000206
11500.0	061.9	-7.5	-20.7	33.7	867.4	2.650	231.6	10.1	1.000200
	036.4	5.3-	-27.3	14.5	636.7		ני ע	16.3	
13000.0	0.429	6.2-	-28.4	æ	822.5	٥	S	13.7	1.333186
13500.0		-6.5	-29.5	17.6	008.1	632.7		14.1	.00018
14000.0		10.1	-30.7	0	794.1	632.0	77	3 .	71000
150000	5.76.7	2 4	-23.6		2.847	0.540	13.	14.0	71000
1	505.4		-20.5	36.7	743.3	0.400	9	8	.00017
10000.0	554.4	8.01	-19.3	43.4	73:3.0	033.1	38	21.4	. 99917
16500.0	243.0	-10.0	-19.6	45.1		632.2	:02.2	23.7	
17000.0	532	-11.6	-20.3	0	708.2	0,000	47	3	. 13016
17500.0		-	-21.5	2.40	96.	3	3	25.8	00000
~	512	-12.4	-22.9	40.0	683.8	629.3	294.7	25.7	. 00015

STATION AL	ALTITUDE 3997.30 FELT MSL 28 0880 HPC MCT	77.30 FED	T MSL		UFFER AIF DAT 0193063004	0 A 1 A		SF ODETIC	COORDINA
ASCENSION NO	NO. 4				TABLE VIII.	(CONT)		106.	06.42307 LON DEG
GEOMETRIC	PRESSURE	TEMP	1.1	RFL.HUM.	DENSITY	SPEED OF	AC ONIU	DATA	INDEX
AL TITUDE		A IR	DEMPOINT	PERCENT	FM/CUBIC	SCLNC	CINECTION	SEFF	OF
MSL FEET	MILL IBARS	DEGREES	CENTIGRADE		METER	KROTS	DEGREES(IN)	KNOTS	SEF PACTION
18500.0	502.0	-13.7	-25.0	37.6	•	1.123	2,16.3	25.3	.00015
19000.0	491.9	-14.9	-20.0	37.8	663.2	620.2	4.7.62	25.2	1,000:52
19500.0	482.0	-16.1	-26.9	38.9	653.0	624.7	5.963	26.0	1.000149
23000.0	472.4	-11.4	-27.7	49.9	645.1	023.2	295.1	20.4	1.000147
20,500.0	462.9	-16.6	-28.6	40.4	633.2	c.21.7	291.5	27.8	. 10014
21000.0	453.5	-19.7	-28.7	44.5	6.23.3	4.020	289.6	28.4	1.000142
21500.0	2. 444	-20.8	-28.8	46.4	612.9	0.15.0	1.88.	28.1	
22000.0	455.1	-22.1	-28.1	54.7	603.4	617.5	291.6	27.1	1. 707136
2.500.6	426.1	-23.4	-28.7	01.0	0.465	615.9	8.463	25.7	1.000136
23000.0	+17.4	-24.0	-28.9	67.2	584.8	014.3	293.0	25.5	. 3391
23500.0	408.7	-25.9	-30.2	67.1	575.6	612.7	208.2	26.4	1.000131
24300.0	400.1	-27.2	-31.6	0.99	50005	011.1	785.0	28.4	1.030129
24560.0	391.6	-26.5	-32.9	65.4	557.4	5.500	282.9	31.0	1.000127
25000.0	343.3	-29.8	-34.3	64.3	548.5		282.6	32.3	1,000124
25560.0	375.1	-31.1	-35.7	63.5	535.7	6.00.2	403.2	34.2	1.000122
2000000	307.1	-34.4	-31.1	1.79	531.1		< 83.4	35.4	1.000120
26500.0	359.3	-33.7	-38.5	61.5	522.7		263.3	37.6	1.000115
2,000.0	351.7	-35.0	-39.0	61.0	514.3	2.100	483.6	8.65	1.030110
27500.0	344.0	-36.3	-41.4	58.6	505.7	259.6	284.3	45.0	1.000114
200000	136.4	-37.5	-43.U	50.5	497.3	258.1	204.2	9.44	1.000112
28500.0	329.1	-38.8	9.44-	53.8	489.3	546.5	~	1.14	1,000140
0.00047	321.9	0.04-	-40.1	51.4	480.0	5. 46.	21	51.2	
29500.0	314.7	-41.2	7.1.4	50.7	472.5	593.4	479.8	55.5	1.030136
300000	7.100	-45.4	-48.5	50.4	464.4	591.8	-	9.09	
30500.0	300.8	-43.0	•	50.0	456.4	590.3	275.7	67.2	1, 133192
31000.0	244.0	L. 44 -	-58.5	14.5**	46.	5.88.E	2.472	74.1	
31500.0	781.4	-45.5			6	557.6	12.	61.5	1. 100398
32000.0	286.9	8.64-			m	5.793	271.7	86.8	
	5.412	0.04-			21.	587.1	271.4	95.1	
33000.0	268.3	-46.3			411.9	2.984	711.1	101.4	1.000052

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AT LEAST ONE ASSUMED RELATIVE HUNIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES 32.48034 LAT DEG 100.42307 LON DEG	SPEED OF KROTS REFERACTION	07.3 1.000090	113.3 1.000088	14.5 1.00008	15.3 1.00008	1113.2 1.000084	1,03008	.5 1	103.7 1.006670	, ,		5 1	1	1	.000ue	-	1	97.1 1.000062	1.	-	84.7 1.000058	18.6 1.000057	73.6 1.000056	69.3 1.000055	1.00005	.1	60.3 1.000051	57.1 1.000050	53.7 1.000049	1.000048
	WIND DATA DIRECTION SP DEGREES(IN) KN	271.4 1	271.6 1	.9 1	.1	272.4		13.3		0.	9.	5.3	4.		:75.1	7.477	9.	• 5	9.	7.	276.0			276.7	575.9	74.	:73.2		271.4	271.0
DATA 104 (CONT)	SPEED OF SOUND KNOTS	585.6	584.3	82	581.2	580.2	580.8	581.8	581.8	581.6	581.5	581.3	580.6	519.2	577.8	570.4						573.7	572.9	572.1	571.3	510.5	569°B	569.1	568.3	567.6
UPPER AIR DATA U1900¢0004 S M R TABLE VIII. (CONT)	DENSITY GMZCURIC METER	404-1	394.7	89	ν α	375.0	57	347.6	334.6	331.9	324.4	317.1	310.5	304.7	299.0	293.5	266.6	279.8	273.4	267.6	262.0	256.5	251.1	245.9	240.7	235.4	m	225.4	220.5	15.
	REL.HUM. PERCENT																													
97.30 FEET MSL 082J HRS MST	TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	-47.2	-48.2		-50-6	-51.3		50.	-50.1	-50.3		-50.5	-51.1	-52.1	-53.2	-54.5	-54.3	-54.3	-54.4	-55.0	-55.6	. 9	-56.9	1.	-58.1	8.	-59.2	-59.8	-60.3	
T17LDE 39	PRESSURE MILLIBARS DO	262.1		250.3						212.4				2	œ			175.8			63.6		6	52.2	146.5	45.0	.5	1	134.7	131.4
STATION AL 19 JAN. 78 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	33500.0	3400000	34500.0	35000.0	35500.0	36500.0	37000.0	3,500.0	38000.0		39300.0	34500.0	4000000	40500.0	41300.0	41500.0	42060.0	42500.0	43000.0	43500.0	44000.0	44300.0	45000.0	5500	6009	46500.0	47000.0	47500.0	48000.0

UPFER AIR DATA	0193060904	S * R TABLE VIII. (CONT)
	3997.30 FELT MSL	UNZU HRS MST
	STATION ALTITUDE 3997.30 FELT MSL	ASCENSION NO.

S	9	12
TE	DE	W
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PRESSURE	PERATURE DEWPOINT	PERCENT	DENSITY FP/CHPIC	SOUNC SOUNC	WIND DATA	SPEFD	INDEX
DEGREES CEN	ENTIGRADE		METER	KNOTS	DEGREES(TV)	KMOTS	REFRACTION
-61.4			211.0	6.995	270.7	46.0	1.000047
-02.5			206.6	8.666	270.5	40.2	1.0003346
-63.1			205.3	564.6	1.073	45.5	1.000045
0.49-			198.2	563.3	270.5	47.6	1,900044
-65.0			154.1	562.1	570.6	49.3	1.000043
6.59-			193.1	560.9	271.1	49.3	1.000042
9.99-			166.1	1.58.7	:71.7	50.1	1.000041
-67.7			182.3	550.4	413.0	5.07	1.039341
-68.6			178.6	557.6	574.6	46.6	1.000046
-69.5			174.9	552.9	276.1	48.5	1, 139039
-70.3			171.2	154.9	2.77.5	46.6	
-70.0			160.0	555.5	278.7	44.3	1.000037
1.49-			104.2	555.7	679.1	41.1	1.000036
-69.5			157.9	556.0	1.617	30.2	1, 130035
-64.2			153.7	556.4	1.973	36.4	1.030634
6.89-			149.6	556.6	6.712	34.6	1.129033
-66.6			145.7	557.1	217.1	33.4	.00003
-68.4			141.8	557.5	210.3	33.3	1,000032
-66.1			136.1	557.9	5.513	31.4	1.000031
-67.8			134.4	5.8.6	475.7	29.1	1,000030
-67.5			130.8	558.6	2.16.2	26.6	1.000025
-67.3			127.4	255.0	4.17.6	23.5	1.00026
-67.0			124.0	559.4	280.3	21.8	1.010028
1.00-			126.7	259.7	684.1	3.05	1.000027
-66.5			117.5	563.0	287.8	19.0	1.030026
4.09-			114.6	560.1	5.062	18.0	1.000026
+-99-			1111.7	500.5	293.7	10.3	1, 100025
4.00-			100.5	2000	2.967	14.5	
-60.3			100.1	2000	304.0	12.9	1.000024
-66.3			103.5	560.3	210.7	12.8	1.000023

GFONETIC COORDINATES 32.45034 LAT DEG 100.42307 LON DEG	INDEX OF FFFRACTION	1,000022	1.000022	1,000021	1.000021	1.000020	1.000020	1,303019	1.000019	1.000018	1.300018	1.000017	1,000017
6FONETIC 32.4	SPEED KNOTS	12.9	12.6	12.3	11.0	6.6	6.6	11.3	14.1	17.7	21.4		
	WIND DATA DIRECTION SI DEGREES(TN) KI	317.5	:22.3	327.0	330.7	334.9	320.4	312.5	304.6	201.3	299.0		
DA1A 004 (CONT)	SOUND KNOTS	500.4	560.5	500.5	560.6	560.7	1.60.7	560.8	560.8	561.0	561.2	561.4	561.6
UPPER AIR DATA C190066004 S M R TABLE VIII. (CONT)	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND PETER KNOTS	100.9	98.3	95.8	43.4	91.1	8.30	86.5	4.40	82.2	80.1	78.1	76.1
TAB	REL.HUM. PERCENT												
T MSL MST	TEMPERATURE R DEWPOINT EES CENTIGRADE												
7.30 FEE	TEMP AIR DEGREES	-66.2	-66.2	-66.1	-66.1	-66.0	0.99-	0.99-	4.09-	-65.8	-65.6	-65.5	-65.5
TITUDE 399	PRESSURE TEM AIR MILLIBARS DEGREES	59.9	58.4	57.0	55.5	54.1	52.8	51.5	50.2	46.9	47.7	40.5	45.4
STATION ALTITUDE 3997.30 FEET MSL 19 JAN. 78 0820 HRS MST ASCENSION NO. 4	GEOMETRIC ALTITUDE MSL FEET M	63500.0	0.00049	64500.0	0.00069	65500.0	0.00009	6.500.0	0.00010	0.500.0	68303.0	0.00509	0.00049

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STATION ALTITLUE 3947.30 FEET MSI.
17 JAN. 18 UBZU HRS MST
ASCENSION NO. 4

UFORETIC FFOROINATES 32-40734 LAT 056 100-42307 LOW 016

MARCTION SPERM REGREECTIVE KNOTS 10 21 . 5. 5 . 5 . 2 . 5 . 3 40.0 1.4.7 4.00 700% 8.60 6.0. 2.3 46.1 16.3 12.7 LINE LATA 179.2 203.9 4.612 274.0 241.2 4.115 100.1 5000 250.0 209.6 6.015 210.1 275.5 204.0 310.5 203.0 \$20.7 PFL. FLV. PERCFAT .00 .00 AIR DEMPOSET LEUKEFS CENTIGRAFF -7.3 -31.t -20.5 -19.2 2.64--49.E カ・ケー 3.1--30.1 -25.4 -23.R TEMPFFATUPE - 10°-7 -67.2 -35.3 -43.7 4.16--13.4 €.6-2.04--54.3 -62.3 6-19--65.9 -49.3 -7U.5 -66.5 PRESSURE GEOPOTENTIAL 6608. 11965. 34564. 3998 10238. 21199. 24025. 27130. 3.590. .6033 45378. 53549. 60567. 42163. 49113. 57925. 63631. FEET 0.009 700.0 640.0 550.0 350.0 350.0 300.0 253.0 200.0 175.0 450.0 500 n 100.0 150.0 650.0 25.0 80.0 MILLIEARS